TRANSPORTATION RESEARCH

List of Contents and Author Index

Volume 27B, 1993

PERGAMON PRESS
NEW YORK • OXFORD • SEOUL • TOKYO

Transportation Research

an international journal **Part B: Methodological**

Editor-in-Chief

FRANK A. HAIGHT
Institute of Transportation Studies, University of California, Irvine, CA 92717, U.S.A.

Associate Editors

CARLOS DAGANZO
Department of Civil Engineering and Institute of Transportation Studies,
University of California, Berkeley, CA 94720, U.S.A.

MARC J. I. GAUDRY
Département de sciences économiques et Centre de recherche sur les transports,
Université de Montréal, C.P. 6128 – Succursale "A", Montréal, Canada H3C 3J7

FRANK S. KOPPELMAN
Department of Civil Engineering, Northwestern University, Evanston IL 60208-3109, U.S.A.

NATHAN H. GARTNER
Department of Civil Engineering, University of Massachusetts, Lowell,
Lowell, MA 01854, U.S.A.

MICHAEL G. H. BELL
Transport Operations Research Group, Department of Civil Engineering,
University of Newcastle upon Tyne NE1 7RU, U.K.

Editorial Advisory Board

RAHMI AKCELIK, Nunawading, Australia
JAMES F. CAMPBELL, St. Louis, MO, U.S.A.
ANDREW F. DAUGHETY, Iowa City, IA, U.S.A.
SVEN ERLANDER, Linköping, Sweden
TERRY L. FRIESZ, Fairfax, VA, U.S.A.
JONATHAN L. GIFFORD, Fairfax, VA, U.S.A.
ALI E. HAGHANI, College Park, MD, U.S.A.
BENJAMIN G. HEYDECKER, London, U.K.
JOEL HOROWITZ, Iowa City, IA, U.S.A.
GENNARO IMPROTA, Napoli, Italy
SERGIO JARA-DIAZ, Santiago, Chile
WILLIAM C. JORDAN, Warren, MI, U.S.A.
LARRY J. LE BLANC, Nashville, TN, U.S.A.
MIKE MAHER, Crowthorne, U.K.
FRED L. MANNERING, Seattle, WA, U.S.A.
HENK MEURS, Utrecht, The Netherlands
NORBERT OPPENHEIM, New York, NY, U.S.A.
V. V. SILYANOV, Moscow, Russia
TONY E. SMITH, Philadelphia, PA, U.S.A.
ROGER L. TOBIN, Waltham, MA, U.S.A.
KENNETH TRAIN, Berkeley, CA, U.S.A.
GEORGE H. WEISS, Bethesda, MD, U.S.A.
HUW C. W. L. WILLIAMS, Cardiff, U.K.
S. C. WIRASINGHE, Calgary, Canada

Production Editor: Kathleen M. Major, Pergamon Press, Tarrytown, New York.

Publishing, Subscription, and Advertising Offices: Pergamon Press Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A., E-mail Address: ESUK.USA@ELSEVIER.COM; and Pergamon Press Ltd., Headington Hill Hall, Oxford OX3 0BW, England.

Published Bi-Monthly. Annual Institutional Subscription Rate (1993): £226.00 (US$362.00). Sterling prices are definitive. US dollar prices are quoted for convenience only, and are subject to exchange rate fluctuation. Prices include postage and insurance and are subject to change without notice.

Application to mail at second class postage is pending at Rahway, NJ. Postmaster send address corrections to TRANSPORTATION RESEARCH: PART B, Pergamon Press Inc., 660 White Plains Road, Tarrytown, NY, 10591-5153, U.S.A.

Cover design by Edward Ruscha

PERGAMON PRESS

HEADINGTON HILL HALL, OXFORD OX3 0BW, ENGLAND
660 WHITE PLAINS ROAD, TARRYTOWN, NY 10591-5153, U.S.A.

Transpn. Res.-B. Vol. 27B, No. 6, pp. VII–IX, 1993
Printed in Great Britain.

0191-2615/93 $6.00 + .00
© 1993 Pergamon Press Ltd.

LIST OF CONTENTS

Volume 27B, No. 1, February 1993

J. Enrique Fernandez L., Patrice Marcotte, Susana Mondschein, Jorge Vera, and **Andrés Weintraub** — 1 — Solution approaches to the bus operator problem

Mounira Taleb-Ibrahimi, Bernardo de Castilho, and **Carlos F. Daganzo** — 13 — Storage space vs handling work in container terminals

Jinn-Tsai Wong, Frank S. Koppelman, and **Mark S. Daskin** — 33 — Flexible assignment approach to itinerary seat allocation

M. J. Smith — 49 — A new dynamic traffic model and the existence and calculation of dynamic user equilibria on congested capacity-constrained road networks

Konstadinos G. Goulias and **Ryuichi Kitamura** — 65 — Analysis of binary choice frequencies with limit cases: Comparison of alternative estimation methods and application to weekly household mode choice

I — Forthcoming Papers

Volume 27B, No. 2, April 1993

Randolph W. Hall — 79 — Design for local area freight networks

D. J. Dailey — 97 — Travel-time estimation using cross-correlation techniques

Rahmi Akçelik and **Nagui M. Rouphail** — 109 — Estimation of delays at traffic signals for variable demand conditions

Dan Trietsch — 133 — Scheduling flights at hub airports

Bernardo de Castilho and **Carlos F. Daganzo** — 151 — Handling strategies for import containers at marine terminals

I — Forthcoming Papers

Volume 27B, No. 3, June 1993

Carlos F. Daganzo and **Gordon F. Newell**	167	Handling operations and the lot size trade-off
Gordon F. Newell	185	Comments on spatial models of traffic
Roger L. Mackett	189	Structure of linkages between transport and land use
Norbert Oppenheim	207	Equilibrium trip distribution/assignment with variable destination costs
V. V. Monastyrsky and **I. M. Golownykh**	219	Rapid computation of optimal control for vehicles
Michael Emmett Brady	229	Dynamic stability, traffic equilibrium and the law of peak-hour expressway congestion
Evdokia A. Adamidou, **Alain L. Kornhauser**, and **Yiannis A. Koskosidis**	237	A game theoretic/network equilibrium solution approach for the railroad freight car management problem
	I	Forthcoming Papers

Volume 27B, No. 4, August 1993

J. D. Hunt and **S. Teply**	253	A nested logit model of parking location choice
Yue-Hong Chou	267	A method for measuring the spatial concentration of airline travel demand
Peter A. Rogerson	275	A maximum likelihood estimator for the intervening opportunities model
G. F. Newell	281	A simplified theory of kinematic waves in highway traffic, Part I: General theory
G. F. Newell	289	A simplified theory of kinematic waves in highway traffic, Part II: Queueing at freeway bottlenecks
G. F. Newell	305	A simplified theory of kinematic waves in highway traffic, Part III: Multi-destination flows
Panos G. Michalopoulos, **Ping Yi**, and **Anastasios S. Lyrintzis**	315	Continuum modelling of traffic dynamics for congested freeways
	I	Forthcoming Papers

Volume 27B, No. 5, October 1993

Bruce N. Janson	333	Most likely origin-destination link uses from equilibrium assignment
Christine Gédéon, Michael Florian, and **Teodor G. Crainic**	351	Determining origin-destination matrices and optimal multiproduct flows for freight transportation over multimodal networks
Huw C. W. L. Williams and **Jamal Abdulaal**	369	Public transport services under market arrangements, Part I: A model of competition between independent operators
Huw C. W. L. Williams and **David Martin**	389	Public transport services under market arrangements, Part II: A model of competition between groups of services
Philip A. Viton	401	Once again, the costs of urban rapid transit
	I	Forthcoming Papers

Volume 27B, No. 6, December 1993

Herbert Mohring	413	Maximizing, measuring, and *not* double counting transportation-improvement benefits: A primer on closed- and open-economy cost-benefit analysis
Samer Madanat	425	Incorporating inspection decisions in pavement management
W. Bruce Allen, Dong Liu, and **Scott Singer**	439	Accessibility measures of U.S. Metropolitan areas
Stéphane Lafortune, Raja Sengupta, David E. Kaufman, and **Robert L. Smith**	451	Dynamic system-optimal traffic assignment using a state space model
James F. Campbell	473	Continuous and discrete demand hub location problems
	I	Forthcoming Papers
	V	Volume 27 Contents and Author Index

Transpn. Res.-B. Vol. 27B, No. 6, p. X, 1993
Printed in Great Britain.

0191-2615/93 $6.00 + .00
© 1993 Pergamon Press Ltd.

AUTHOR INDEX

Abdulaal, J., 369
Adamidou, E. A., 237
Akcelik, R., 109
Allen, W. B., 439

Brady, M. E., 229

Campbell, J. F., 473
Chou, Y-H., 267
Crainic, T. G., 351

Daganzo, C. F., 13, 151, 167
Dailey, D. J., 97
Daskin, M. S., 33
de Castilho, B., 13, 151

Fernandez, E., 1
Florian, M., 351

Gédéon, C., 351
Golownykh, I. M., 219
Goulias, K. G., 65

Hall, K. G., 79
Hunt, J. D., 253

Janson, B. N., 333

Kaufman, D. E., 451
Kitamura, R., 65
Koppelman, F. S., 33
Kornhauser, A. L., 237
Koskosidis, Y. A., 237

Lafortune, S., 451
Liu, D., 439
Lyrintzis, A. S., 315

Mackett, R. L., 189
Madanat, S., 425
Marcotte, P., 1
Martin, D., 389
Michalopoulos, P. G., 315
Mohring, H., 413
Monastyrsky, V. V., 219
Mondschein, S., 1

Newell, G. F., 167, 185, 281, 289, 305

Oppenheim, N., 207

Rogerson, P. A., 275
Rouphail, N. M., 109

Sengupta, R., 451
Singer, S., 439
Smith, M. J., 49
Smith, R. L., 451

Taleb-Ibrahimi, M., 13
Teply, S., 253
Trietsch, D., 133

Vera, J., 1
Vitron, P. A., 401

Weintraub, A., 1
Williams, H. C. W. L., 369, 389
Wong, J.-T., 33

Yi, P., 315